

Appendix table 5-48

S&E articles in computer sciences, by coauthorship attribute and selected country/economy: 1997–2012

| Country/economy and coauthorship attribute | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Belgium | | | | | | | | | | | | | | | | |
| Total articles | 72 | 55 | 69 | 40 | 72 | 68 | 97 | 68 | 79 | 102 | 114 | 108 | 118 | 106 | 135 | 130 |
| with multiple institutions | 46 | 36 | 38 | 18 | 45 | 41 | 57 | 42 | 41 | 67 | 70 | 69 | 72 | 76 | 101 | 99 |
| with domestic institutions only | 32 | 27 | 36 | 24 | 31 | 36 | 52 | 34 | 44 | 51 | 56 | 57 | 59 | 48 | 46 | 51 |
| with international institutions | 40 | 28 | 33 | 16 | 41 | 32 | 45 | 34 | 35 | 51 | 58 | 51 | 59 | 58 | 89 | 79 |
| Czech Republic | | | | | | | | | | | | | | | | |
| Total articles | 17 | 16 | 21 | 24 | 31 | 31 | 45 | 43 | 46 | 41 | 54 | 72 | 79 | 78 | 96 | 87 |
| with multiple institutions | 10 | 11 | 12 | 12 | 19 | 18 | 27 | 33 | 28 | 24 | 35 | 48 | 53 | 55 | 55 | 50 |
| with domestic institutions only | 7 | 5 | 10 | 16 | 16 | 15 | 23 | 15 | 25 | 21 | 26 | 28 | 41 | 27 | 49 | 44 |
| with international institutions | 10 | 11 | 11 | 8 | 15 | 16 | 22 | 28 | 21 | 20 | 28 | 44 | 38 | 51 | 47 | 43 |
| Denmark | | | | | | | | | | | | | | | | |
| Total articles | 42 | 33 | 45 | 37 | 52 | 43 | 45 | 55 | 40 | 57 | 49 | 52 | 46 | 49 | 57 | 88 |
| with multiple institutions | 29 | 20 | 27 | 27 | 34 | 32 | 27 | 40 | 28 | 36 | 28 | 29 | 32 | 35 | 43 | 65 |
| with domestic institutions only | 14 | 13 | 23 | 12 | 22 | 15 | 21 | 20 | 15 | 25 | 30 | 29 | 16 | 16 | 17 | 35 |
| with international institutions | 28 | 20 | 22 | 25 | 30 | 28 | 24 | 35 | 25 | 32 | 19 | 23 | 30 | 33 | 40 | 53 |
| Finland | | | | | | | | | | | | | | | | |
| Total articles | 31 | 41 | 38 | 49 | 45 | 65 | 55 | 38 | 61 | 75 | 78 | 77 | 71 | 74 | 73 | 85 |
| with multiple institutions | 17 | 24 | 23 | 32 | 24 | 41 | 41 | 15 | 32 | 45 | 51 | 49 | 46 | 51 | 57 | 56 |
| with domestic institutions only | 18 | 26 | 22 | 33 | 30 | 38 | 25 | 30 | 39 | 46 | 40 | 43 | 36 | 37 | 33 | 40 |
| with international institutions | 13 | 15 | 16 | 16 | 15 | 27 | 30 | 8 | 22 | 29 | 38 | 34 | 35 | 37 | 40 | 45 |
| France | | | | | | | | | | | | | | | | |
| Total articles | 242 | 245 | 262 | 292 | 313 | 377 | 399 | 342 | 393 | 458 | 409 | 513 | 527 | 526 | 636 | 621 |
| with multiple institutions | 138 | 140 | 138 | 164 | 183 | 230 | 252 | 213 | 259 | 311 | 289 | 372 | 396 | 412 | 516 | 499 |
| with domestic institutions only | 149 | 157 | 164 | 184 | 194 | 218 | 248 | 211 | 212 | 241 | 211 | 268 | 260 | 244 | 279 | 257 |
| with international institutions | 93 | 88 | 98 | 108 | 119 | 159 | 151 | 131 | 181 | 217 | 198 | 245 | 267 | 282 | 357 | 364 |
| Germany | | | | | | | | | | | | | | | | |
| Total articles | 267 | 302 | 326 | 332 | 359 | 345 | 392 | 345 | 398 | 419 | 425 | 411 | 458 | 442 | 557 | 584 |
| with multiple institutions | 141 | 165 | 182 | 200 | 207 | 215 | 226 | 224 | 251 | 267 | 293 | 283 | 300 | 312 | 391 | 445 |
| with domestic institutions only | 162 | 176 | 189 | 183 | 190 | 176 | 219 | 173 | 200 | 211 | 204 | 197 | 232 | 198 | 239 | 221 |
| with international institutions | 105 | 126 | 137 | 149 | 169 | 169 | 173 | 172 | 198 | 208 | 221 | 214 | 226 | 244 | 318 | 363 |
| Greece | | | | | | | | | | | | | | | | |
| Total articles | 35 | 40 | 58 | 61 | 61 | 87 | 89 | 91 | 95 | 119 | 124 | 140 | 140 | 166 | 140 | 143 |
| with multiple institutions | 18 | 18 | 29 | 35 | 28 | 50 | 46 | 58 | 57 | 81 | 82 | 89 | 96 | 118 | 92 | 96 |
| with domestic institutions only | 22 | 25 | 37 | 36 | 40 | 56 | 56 | 62 | 66 | 72 | 80 | 93 | 86 | 93 | 88 | 91 |
| with international institutions | 13 | 15 | 21 | 25 | 21 | 31 | 33 | 29 | 29 | 47 | 44 | 47 | 54 | 73 | 52 | 52 |
| Hungary | | | | | | | | | | | | | | | | |
| Total articles | 30 | 39 | 47 | 30 | 37 | 50 | 43 | 24 | 41 | 32 | 36 | 43 | 31 | 38 | 52 | 37 |
| with multiple institutions | 21 | 24 | 23 | 22 | 20 | 35 | 34 | 17 | 27 | 22 | 22 | 22 | 22 | 23 | 36 | 29 |
| with domestic institutions only | 11 | 23 | 26 | 16 | 18 | 20 | 15 | 10 | 19 | 14 | 17 | 25 | 12 | 19 | 22 | 9 |
| with international institutions | 19 | 16 | 21 | 14 | 19 | 30 | 28 | 14 | 22 | 18 | 19 | 18 | 19 | 19 | 30 | 28 |

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S&E articles in computer sciences, by coauthorship attribute and selected country/economy: 1997–2012

| Country/economy and coauthorship attribute | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| New Zealand | | | | | | | | | | | | | | | | |
| Total articles | 10 | 23 | 21 | 12 | 19 | 31 | 30 | 22 | 22 | 35 | 27 | 31 | 31 | 29 | 40 | 40 |
| with multiple institutions | 6 | 13 | 13 | 11 | 10 | 15 | 20 | 10 | 16 | 23 | 17 | 27 | 24 | 18 | 32 | 29 |
| with domestic institutions only | 4 | 12 | 9 | 3 | 9 | 18 | 15 | 13 | 10 | 15 | 13 | 8 | 10 | 12 | 17 | 14 |
| with international institutions | 6 | 11 | 12 | 9 | 10 | 13 | 15 | 9 | 12 | 20 | 14 | 23 | 21 | 17 | 23 | 26 |

NOTES: Article counts are from the set of journals covered by the Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Articles are classified by the year they entered the database, rather than the year of publication, and are assigned to a country/economy on the basis of the institutional address(es) listed in the article. Articles are credited on a whole-count basis (i.e., each collaborating country/economy is credited with one count).

Countries/economies with less than 1% of internationally coauthored articles in 2012 are omitted. Articles with multiple institutions are counts of articles with two or more institutional addresses. Articles with domestic institutions only are counts of articles with one or more institutional addresses all within the country/economy. Articles with international institutions are counts of articles with one or more institutional addresses outside the country/economy.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, and The Patent Board™, special tabulations (2013) from Thomson Reuters, SCI and SSCI, http://thomsonreuters.com/products_services/science/.

Science and Engineering Indicators 2014